**7 kyu**

**Simple Fun #67: Array Change**

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C#

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Task

You are given an array of integers. On each move you are allowed to increase exactly one of its element by one. Find the minimal number of moves required to obtain a strictly increasing sequence from the input.

Example

For arr = [1, 1, 1], the output should be 3.

Input/Output

* [input] integer array arr

Constraints:

3 ≤ inputArray.length ≤ 100,

-10000 ≤ inputArray[i] ≤ 10000.

* [output] an integer

The minimal number of moves needed to obtain a strictly increasing sequence from inputArray.

It's guaranteed that for the given test cases the answer always fits signed 32-bit integer type.

<https://www.codewars.com/kata/simple-fun-number-67-array-change/csharp>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static int ArrayChange(int[] arr)

{

//coding and coding..

int sum = 0;

for (int i = 1; i < arr.Length; i++)

{

if (arr[i - 1] >= arr[i])

{

int resto = arr[i - 1] - arr[i];

arr[i] += resto + 1;

sum += resto + 1;

}

}

return sum;

}

static void Main(string[] args)

{

int[] arr = new int[] { 2, 3, 3, 5, 5, 5, 4, 12, 12, 10, 15 };

int res = ArrayChange(arr);

Console.WriteLine(res);

Console.ReadLine();

}

}

}